

Amendments to the Claims:

Please cancel claims 1-11 and please add new claims 12-37 as follows. This listing of claims will replace all prior versions, and listings of claims in the application:

12. A contraceptive or sterilization device for occluding a reproductive body lumen to prevent the passage of reproductive cells therethrough, comprising:

a) a tubular member having a first end, a second end, and a lumen extending therein, which is at least in part expandable within the reproductive body lumen from a first configuration to a second larger configuration; and

b) a mesh member connected to the tubular member, which is permeable to allow for tissue ingrowth to thereby occlude the reproductive body lumen.

13. A contraceptive device installed within a lumen of the patient's reproductive system, comprising

a) a tubular member having a first end, a second end, and a lumen extending therein, and having at least a portion thereof which is secured to a body wall portion defining at least in part the lumen of the patient's reproductive system; and

b) an occluding member connected to the tubular member comprising an epithelialized mesh which occludes the lumen of the patient's reproductive system sufficiently to prevent the passage of reproductive cells therethrough.

14. A contraceptive system, comprising

a) a catheter having a proximal end, a distal end, and a lumen extending at least in part therein; and

b) a contraceptive device releasably connected to the catheter, having a tubular member having a first end, a second end, and a lumen extending therein, which is at least in part expandable within the reproductive body lumen from a first configuration to a second larger configuration, and having a mesh member connected to the tubular member, which is permeable to allow for tissue ingrowth to thereby occlude the reproductive body lumen.

15. A method of contraception comprising the steps of:

- a) inserting within a desired body lumen a contraceptive device comprising a tubular member and a mesh member connected thereto;
- b) expanding the tubular member within the body lumen;
- c) securing the expanded tubular member to a wall portion defining at least in part the body lumen; and
- d) epithelializing the mesh member to occlude the body lumen.

16. The method of claim 15 wherein the step of expanding the tubular member comprises the step of releasing a radially compressive force on the tubular member.

17. The method of claim 16 wherein the contraceptive device is disposed within a lumen of a delivery catheter, and the step of releasing the radially compressive force comprises longitudinally displacing the tubular member out a distal end of the delivery catheter.

18. The method of claim 15 wherein the expanded tubular member is disposed within the body lumen for sufficient time for it to be epithelialized within the body lumen and thereby secured to the wall portion.

19. A contraceptive or sterilization device for occluding a fallopian tube to inhibit conception, comprising:

- a) a tubular structure having a first end, a second end, and a lumen extending therein, the tubular structure expandable within the fallopian tube from a first configuration to a second larger configuration; and

- b) a tissue ingrowth element connected to the tubular structure, the tissue ingrowth element inciting tissue ingrowth to thereby occlude the fallopian tube.

20. A contraceptive device installed within a patient's fallopian tube, comprising:

- a) a tubular structure having a first end, a second end, and a lumen extending therein, and having at least a portion thereof which is secured to a tubal wall portion of the patient's fallopian tube; and

b) a tissue ingrowth element connected to the tubular structure comprising a material with tissue ingrowth therein which occludes the patient's fallopian tube sufficiently to disrupt conception.

21. A contraceptive system, comprising:

a) a catheter having a proximal end, a distal end, and a lumen extending therein; and

b) a contraceptive device releasably connected to the catheter, having a tubular structure having a first end, a second end, and a lumen extending therein, which is expandable within the reproductive body lumen from a first configuration to a second larger configuration, and having a tissue ingrowth element connected to the tubular structure, which is porous to allow for tissue ingrowth to thereby occlude the reproductive body lumen.

22. A contraceptive device, comprising:

a) a tubular body which is expandable from a first tubular configuration to a second larger tubular configuration having an expanded portion with an inner diameter within the tubular body which is larger than an inner diameter within the tubular body in the first configuration, the second configuration facilitating securing at least a portion of the tubular body to a wall portion defining at least in part a lumen of a patient's reproductive system, the tubular body having an open framework facilitating the ingrowth of tissue cells thereby securing the expanded portion of the tubular body to the wall portion of the reproductive system lumen, and

b) a member within the tubular body which is configured to support tissue growth.

23. The contraceptive device of claim 22, wherein the member within the tubular body provokes an inflammatory response.

24. A contraceptive device, comprising

a) a tubular body which is expandable from a first tubular configuration to a second larger tubular configuration to facilitate securing at least a portion of the tubular

body to a wall portion defining at least in part a lumen of a patient's reproductive system and which has an open framework facilitating the ingrowth of tissue cells;

b) a member within the expandable tubular body which is configured to support tissue growth.

25. A contraceptive device, comprising

a) a tubular body which is expandable from a first tubular configuration to a second larger tubular configuration to facilitate securing at least a portion of the tubular body to a wall portion defining at least in part a lumen of a patient's reproductive system, the tubular body comprising a helical coil and allowing the ingrowth of tissue;

b) a material disposed at least in part within the expandable tubular body so as to incite tissue in-growth.

26. A contraceptive device, comprising a tubular body which has a longitudinal axis, which is at least in part radially expandable about the longitudinal axis within a lumen of a patient's reproductive system from a first tubular configuration to a second tubular configuration having larger transverse dimensions than the first tubular configuration, which has an open structure in the expanded configuration for ingrowth of tissue cells for securing the expanded portion of the tubular body to a wall portion of the patient's reproductive system lumen, and which has a member within the tubular body which is configured for tissue growth.

27. A contraceptive device, comprising:

a) a tubular body which has a longitudinal axis, which is at least in part radially expandable about the longitudinal axis within a lumen of a patient's reproductive system from a first tubular configuration to a second tubular configuration having larger transverse dimensions than the first tubular configuration to facilitate securing a least a portion of the tubular body to a wall portion defining at least in part a lumen of a patient's reproductive system and which has an open structure in the expanded configuration for ingrowth of tissue cells; and

b) a member within the expandable tubular body which is configured for tissue growth.

28. The contraceptive device of claim 26 wherein the tubular member comprises a tube having a pattern of slots to allow the tubular member to be expanded to the open structure.

29. The contraceptive device of claim 26 wherein the tubular member is formed of a helical wire configured to allow the tubular member to be expanded to the open structure.

30. The contraceptive device of claim 26 wherein the tubular member comprises braided filaments configured to allow the tubular member to be expanded to the open structure.

31. The contraceptive device of claim 27 wherein the tubular member comprises a tube having a pattern of slots to allow the tubular member to be expanded to the open structure.

32. The contraceptive device of claim 27 wherein the tubular member is formed of a helical wire configured to allow the tubular member to be expanded to the open structure.

33. The contraceptive device of claim 27 wherein the tubular member comprises braided filaments configured to allow the tubular member to be expanded to the open structure.

34. A contraceptive device for deployment in a female patient's fallopian tube, comprising:

a) A tubular body which has a longitudinal axis, which at least in part is radially expandable about the longitudinal axis within the patient's fallopian tube from a first tubular configuration to a second tubular configuration having larger transverse dimensions than the first tubular configuration to facilitate securing a least a portion of the expanded tubular body to a wall portion defining at least in part a lumen of the female patient's fallopian tube and which has an open structure in the expanded configuration facilitating ingrowth of tissue cells; and

b) a member within the radially expandable tubular body which is configured for tissue growth.

35. A sterilization device occluding a reproductive body lumen to prevent the passage of reproductive cells therethrough, comprising:

a) a tubular member having a first end, a second end, and a lumen extending therein, the tubular member at least in part expandable within the reproductive body lumen from a first configuration to a second larger configuration; and

b) a mesh member connected to the tubular member, the mesh member permeable and receiving tissue ingrowth therein so as to occlude the reproductive body lumen.

36. A contraceptive device installed within a lumen of the patient's reproductive system, comprising

a) a tubular member having a first end, a second end, and a lumen extending therein, and having at least a portion thereof which is secured to a body wall portion defining at least in part the lumen of the patient's reproductive system; and

b) an occluding member connected to the tubular member comprising a mesh receiving tissue ingrowth therein, the ingrown mesh occluding the lumen of the patient's reproductive system sufficiently to prevent the passage of reproductive cells therethrough.

37. A contraceptive or sterilization device for occluding a fallopian tube to inhibit conception, the fallopian tube capable of producing ingrowth tissues, the device comprising:

a) a tubular structure having a first end, a second end, and a lumen extending therein, the tubular structure expandable within the fallopian tube from a first configuration to a second larger configuration; and

b) a tissue ingrowth element connected to the tubular structure, the tissue ingrowth element receiving tissue ingrowth to thereby occlude the fallopian tube.